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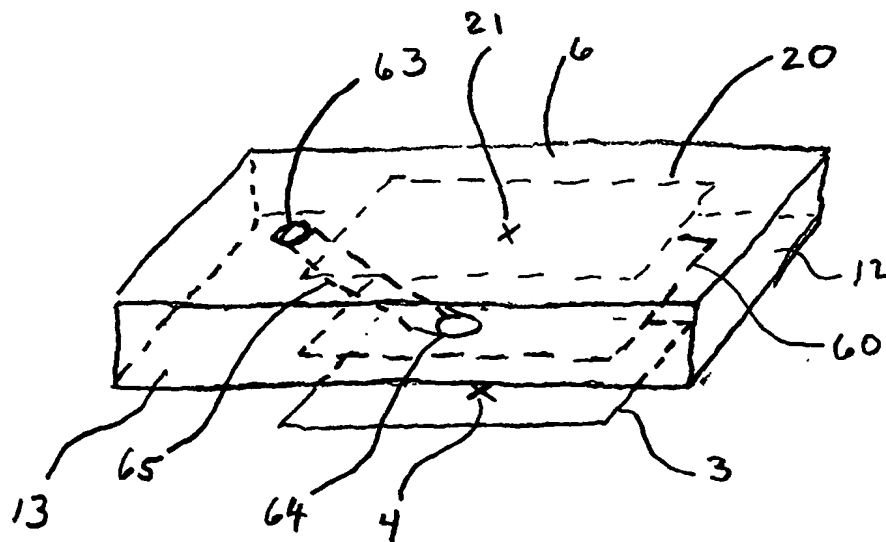
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(54) Title: **AN INTUITIVE ULTRASONIC IMAGING SYSTEM AND RELATED METHOD THEREOF**



(57) Abstract: A hand held ultrasonic instrument (10) is provided in a portable unit that performs C-Mode imaging and collects 3D image data. In a preferred embodiment a transducer array (60), display unit (20), beamformer (40), power system, and image processor are integrated in one enclosure weighing less than three pounds. In operation, the portable unit is scanned across a target and the displayed image is conveniently presented to the operator whereby the displayed image corresponds exactly to the target, or a scaled fashion if desired.